

7 inserting the data element in the first data operand into a destination
8 field of a destination register.

1 9. (Amended) The method of claim 8 further comprising [the step of] packing
2 floating point data into the data elements.

1 10. (Amended) The method of claim 8 further comprising [the step of] packing
2 integer data into the data elements.

1 11. (Amended) A method comprising the computer-implemented [steps of]:
2 decoding a single instruction;
3 in response to [the step of] decoding the single instruction,
4 accessing a first packed data operand having at least two data elements;
5 and
6 extracting one of the data elements from the first packed data operand
7 into a field of a destination register.

1 12. (Amended) The method of claim 11 wherein [the step of] extracting one of
2 the data elements from the first packed operand comprises extracting one of the data
3 elements from the first packed data operand into a field of a packed destination
4 register.

1 13. (Amended) The method of claim 11 further comprising [the step of] packing
2 floating point data into the data elements.

1 14. (Amended) The method of claim 11 further comprising [the step of] packing
2 integer data into the data elements.

1 15. (Amended) A method comprising the computer implemented [steps of]:
2 accessing data representative of a first three-dimensional image;

3 altering the data using three-dimensional geometry to generate a second
4 three-dimensional image, [the step of] altering at least including,
5 accessing a first data operand having a data element;
6 accessing a second packed data operand having at least two data elements;
7 inserting the data element in the first data operand into a destination field of
8 a destination register; and
9 displaying the second three-dimensional image.

A 1 16. (Amended) The method of claim 15 wherein [the step of] altering includes
2 the performance of a three-dimensional transformation.

1 17. (Amended) The method of claim 15 wherein [the step of] altering includes
2 [the step of] packing floating point data into the data elements.

1 18. (Amended) The method of claim 15 wherein [the step of] altering includes
2 [the step of] packing integer data into the data elements.

1 19. (Amended) A method comprising the computer implemented [steps of]:
2 accessing data representative of a first three-dimensional image;
3 altering the data using three-dimensional geometry to generate a second
4 three-dimensional image, [the step of altering] at least including,
5 accessing a first packed data operand having at least two data elements; and
6 extracting one of the data elements from the first packed data operand into a
7 field of a destination register; and
8 displaying the second three-dimensional image.

1 20. (Amended) The method of claim 19 wherein [the step of] altering further
2 includes [the step of] extracting one of the data elements from the first packed data
3 operand into a field of a packed destination register.